



# Using Field Properties in Blaise 5

“Beneath Blaise 5, we find the FieldProperty ... and beneath the FieldProperty we find ... the ... data.”



# What are FieldProperties

- ▶ Peter
  - ▶ Background of FieldProperties
  - ▶ Setup in source
  - ▶ Populating FieldProperties
- ▶ Chuck
  - ▶ Storage of FieldProperties
  - ▶ Uses for FieldProperties



# What do fieldproperties do?

- ▶ Field properties allow us to store additional information about fields in a survey instrument without needing to add additional fields.
- ▶ We use fieldproperties to tell us about:
  - ▶ Remark – users can comment on unusual values or events related to a question.
  - ▶ OriginalValue –store what the value was when it first was completed. This allows our editors to make updates but they can get back to the original in the event they made a mistake.
  - ▶ OverlayValue – Periodically, we have records that are completed via multiple methods (e.g. phone and mail). OverlayValue allows our editors to see what the overlay value is compared to what is in the field currently.

# Setup of FieldProperties

- Fieldproperties is a new section in B5 that allows more versatility than B4 remarks.
- The Remark fieldproperty allows for a remark/comment system similar to B4 and has some features built in the software by default.
- We added two additional fieldproperties – OriginalValue and OverlayValue

```
DATAMODEL LNDVAL200000 INTERVIEWER "Enumerated Land Values Survey"  
FIELDINTERVIEWER "Field Enumerated Land Values Survey"  
EDITOR "Interactive Edit for Land Values Survey"  
SELF "Self-Administered Land Values Survey"  
DATAENTRY "Data Entry Interface for Land Values Survey"  
  
SETTINGS  
ATTRIBUTES = DONTKNOW, REFUSAL, NOEMPTY  
ROLES = EditMask, Watermark, Help, SectionIndexName, IndexCheckMark, InterviewerNotes, Speedkey  
  
FIELDPROPERTIES  
Remark: open  
OriginalValue: string  
OverlayValue: string
```

# Associated fields in the instrument

- Two new fields in our Instruments that get mapped to the BLRD
- Depending on the value in these fields, the BLRD will display different buttons for the user to interact with
- The buttons below appear because of these mapped fields

```
OriginalValueSwitch "Original Value has been set?<NEWLINE>  
    EMPTY, 0 = OriginalValue was not set<NEWLINE>  
    1 = OriginalValue was set<NEWLINE>  
    2 = Something was done with OriginalValue" : 0..9 {B5 5/2019}  
OverlayValueSwitch "Overlay value information:<NEWLINE>  
    EMPTY, 0 = Record does not have an overlay <NEWLINE>  
    1 = Record has an overlay present<NEWLINE>  
    2 = Overlaid record was accepted" : 0..9 {B5 5/2019}
```

Interactive Edit for Land Values Survey

AGRICULTURE  
NASS  
COUNTYS

Interactive Edit for Land Values Survey

Goto ItemCode

The visibility of these buttons is controlled by fields mapped to the BLRD.

Show Original

Overlay Accepted

# Populating FieldProperties

- ▶ We use Manipula to populate our fieldproperties
- ▶ At the end of a phone interview we run a manipula to set OriginalValue
- ▶ A similar manipula runs for records that are completed on paper and read in (review paper)
- ▶ Fieldproperties can also be set using actions in the BLRD (review SN Remark, Visibility examples)

Receipt page for StrictCATI records triggers an OnLoaded GotoUri event that runs SetOriginalValue.MSUX and passes the primary key as a parameter.

**OnLoaded**

Actions:

- GotoUri

Properties:

- Arguments: (ValuePropertiesObject)
- Uri: S:\Application\_Files\Blaise5\Bin\Manipula.exe

**Arguments**

Items:

- ValuePropertiesObject

Properties:

- ValueAsString: "S:/Application\_Files/Blaise5/BLIB/SHELL!"

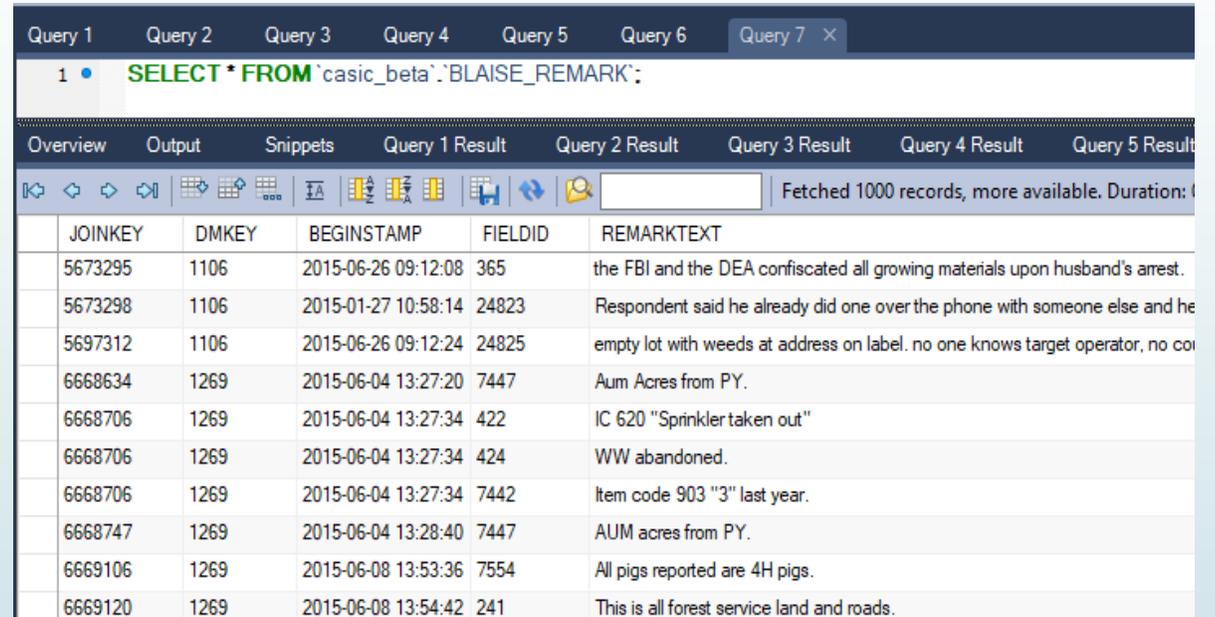
## Blaise 4 REMARK table

NASS uses Generic InDepth data storage for Blaise 4.

Data are stored in MySQL ... currently.

Note: At this point, we were only dealing with handling remarks.

Enter Blaise 5 ...



The screenshot shows a SQL query result in a database client. The query is `SELECT * FROM `casic_beta`.`BLAISE_REMARK`;`. The result is displayed in a table with the following columns: JOINKEY, DMKEY, BEGINSTAMP, FIELDID, and REMARKTEXT. The table contains 10 rows of data.

JOINKEY	DMKEY	BEGINSTAMP	FIELDID	REMARKTEXT
5673295	1106	2015-06-26 09:12:08	365	the FBI and the DEA confiscated all growing materials upon husband's arrest.
5673298	1106	2015-01-27 10:58:14	24823	Respondent said he already did one over the phone with someone else and he
5697312	1106	2015-06-26 09:12:24	24825	empty lot with weeds at address on label. no one knows target operator, no coi
6668634	1269	2015-06-04 13:27:20	7447	Aum Acres from PY.
6668706	1269	2015-06-04 13:27:34	422	IC 620 "Sprinkler taken out"
6668706	1269	2015-06-04 13:27:34	424	WW abandoned.
6668706	1269	2015-06-04 13:27:34	7442	Item code 903 "3" last year.
6668747	1269	2015-06-04 13:28:40	7447	AUM acres from PY.
6669106	1269	2015-06-08 13:53:36	7554	All pigs reported are 4H pigs.
6669120	1269	2015-06-08 13:54:42	241	This is all forest service land and roads.

# Blaise 5 ... FieldProperty table

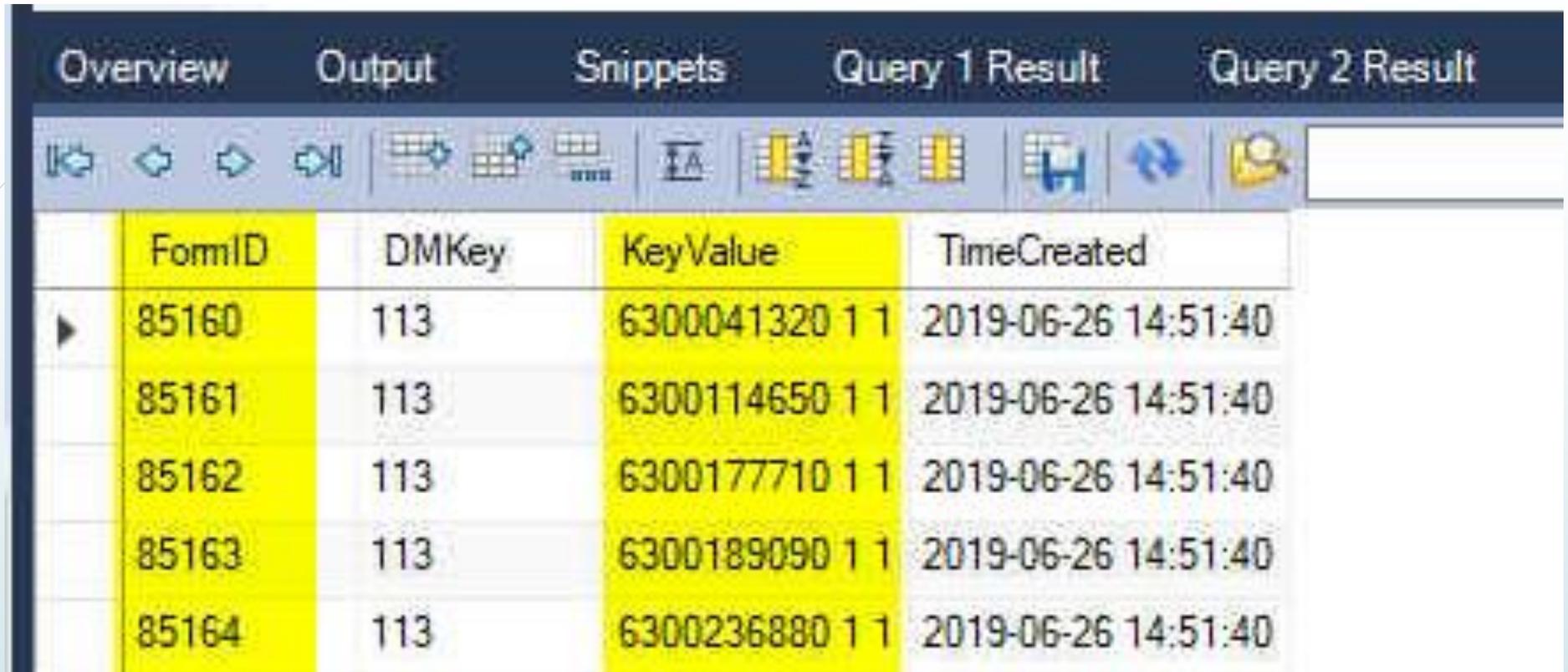
Query 1 Query 2 Query 3 Query 4 Query 5 Query 6 x Query 7

```
1 • SELECT * FROM `casic5`.`Blaise_FieldProperty`;
```

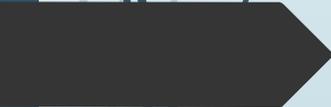
Overview Output Snippets Query 1 Result Query 2 Result Query 3 Result Query 4 Result Query 5 Result Query 6 Result x Query 7 Result

Fetches 1000 records, more available. Duration: 0.000 sec, fetched in: 0.000 sec

	FormID	DMKey	BeginStamp	FieldId	PropertyName	IntegerData	RealData	DateTimeData	StringData	TextData
▶	122	2	2020-02-12 10:02:37	13.8	OriginalValue	NULL	NULL	NULL	0	NULL
	122	2	2020-02-12 10:02:37	13.8	Remark	NULL	NULL	NULL	NULL	CAP1: all planted chile failed because of
	122	2	2020-02-12 10:02:37	17.1	OriginalValue	NULL	NULL	NULL	6	NULL
	122	2	2020-02-12 10:02:37	17.10	OriginalValue	NULL	NULL	NULL	5	NULL
	122	2	2020-02-12 10:02:37	17.13	OriginalValue	NULL	NULL	NULL	1	NULL
	122	2	2020-02-12 10:02:37	17.16	OriginalValue	NULL	NULL	NULL	1	NULL
	122	2	2020-02-12 10:02:37	17.17	OriginalValue	NULL	NULL	NULL	35171	NULL
	122	2	2020-02-12 10:02:37	17.3	OriginalValue	NULL	NULL	NULL	31-10-2019	NULL
	122	2	2020-02-12 10:02:37	17.6	OriginalValue	NULL	NULL	NULL	3	NULL
	122	2	2020-02-12 10:02:37	21.13.10	OriginalValue	NULL	NULL	NULL	120	NULL
	122	2	2020-02-12 10:02:37	21.13.8	OriginalValue	NULL	NULL	NULL	0	NULL
	122	2	2020-02-12 10:02:37	21.2.21	OriginalValue	NULL	NULL	NULL	10	NULL
	122	2	2020-02-12 10:02:37	21.2.30	OriginalValue	NULL	NULL	NULL	0	NULL
	130	2	2019-12-05 16:13:03	13.45	OriginalValue	NULL	NULL	NULL	L02993743	NULL
	130	2	2019-12-05 16:13:03	13.8	OriginalValue	NULL	NULL	NULL	0	NULL
	130	2	2019-12-05 16:13:03	13.8	Remark	NULL	NULL	NULL	NULL	CAP1: undefined :: OUT OF BUSINESS:



	FomID	DMKey	KeyValue	TimeCreated
▶	85160	113	6300041320 1 1	2019-06-26 14:51:40
	85161	113	6300114650 1 1	2019-06-26 14:51:40
	85162	113	6300177710 1 1	2019-06-26 14:51:40
	85163	113	6300189090 1 1	2019-06-26 14:51:40
	85164	113	6300236880 1 1	2019-06-26 14:51:40



## Blaise 5 Blaise\_Case

From Blaise\_Case, we obtain the KeyValue ...

Query 1 Query 2 Query 3 FieldPropertyView.sql Query 5 Query 6 x

```

1 • SELECT * FROM `casic5`.`Blaise_ID` where dmkey=113 and ItemType = 'F'
2 and ItemName like 'Sec10%|':

```

Overview Output Snippets Query 1 Result Query 2 Result Query 3 Result Query 4 Result Query 5 Result Query 6 Result x

Fetches 37 records. Duration: 0.000 sec, fetched in: 0.000 sec

	DMKey	ItemType	ItemID	ItemName	FieldTag	QuestionText
	113	F	22.2	Sec10Apricot.DummyField1	NULL	Reserve for future use
	113	F	22.3	Sec10Apricot.DummyField2	NULL	Reserve for future use
	113	F	22.4	Sec10Apricot.DummyField3	NULL	Reserve for future use
	113	F	22.5	Sec10Apricot.DummyField4	NULL	Reserve for future use
	113	F	22.6.0	Sec10Apricot.Future.Apple	7120	<G>APPLES TREE ACRES IN THE FUTURE?
	113	F	22.6.1	Sec10Apricot.Future.Apricot	7121	<G>APRICOT TREE ACRES IN FUTURE?
	113	F	22.6.10	Sec10Apricot.Future.FutureCrop	NULL	<G>Will this operation have any of the following fruit, citrus, grape, berry, or tree nut crops in the future?
	113	F	22.6.11	Sec10Apricot.Future.Grape	7130	<G>GRAPE ACRES IN FUTURE?
	113	F	22.6.12	Sec10Apricot.Future.Kiwifruits	7131	<G>KIWIFRUIT TREE ACRES IN THE FUTURE?
	113	F	22.6.13	Sec10Apricot.Future.Nectarine	7132	<G>NECTARINES TREE ACRES IN THE FUTURE?

## Blaise 5 Blaise\_ID

From Blaise\_ID, we obtain the associated FieldTag ...

# Blaise 5 view(s)

- ▶ The Blaise 5 FieldProperty table holds all of this information but in order to harness this information, we needed to translate to NASS.

```
1 • SELECT * FROM `casic5`.`viewFieldProperty` where DMKey = 2;
```

Overview	Output	Snippets	Query 1 Result	Query 2 Result	Query 3 Result	Query 4 Result	Query 5 Result	Query 6 Result	Query 7 Result
Fetched 87 records. Duration: 0.234 sec, fetched in: 0.000 sec									
KeyValue	FomID	DMKey	FieldTag	DescriptionText	ItemName	PropertyName	StringData	TextData	
35300992050 1 1	122	2	9960	YCMTCAPI	Managmnt.CAPICmntInd	OriginalValue	0	NULL	
35300992050 1 1	122	2	9960	YCMTCAPI	Managmnt.CAPICmntInd	Remark	NULL	CAPI: all planted chile failed because of	
35300992050 1 1	122	2	9904	YQSTDCPT	OfficeUse.CaptureSource	OriginalValue	6	NULL	
35300992050 1 1	122	2	9903	YQSTMODE	OfficeUse.ModeCode	OriginalValue	5	NULL	
35300992050 1 1	122	2	9902	YQSTRSPT	OfficeUse.RespondentCode	OriginalValue	1	NULL	
35300992050 1 1	122	2	9901	YQSTRSPS	OfficeUse.ResponseCode	OriginalValue	1	NULL	
35300992050 1 1	122	2	9998	MENUMERA	OfficeUse.Sup_Enum	OriginalValue	35171	NULL	
35300992050 1 1	122	2	9910	YCOLDATE	OfficeUse.CollectionDate	OriginalValue	31-10-2019	NULL	
35300992050 1 1	122	2	9900	MENUMQUA	OfficeUse.Eval	OriginalValue	3	NULL	
35300992050 1 1	122	2	231	CSPAPRPL	Sec10Chile.Paprika.Plant	OriginalValue	120	NULL	
35300992050 1 1	122	2	131	CSPAPRHV	Sec10Chile.Paprika.Harvested	OriginalValue	0	NULL	
35300992050 1 1	122	2	205	CLHTRGPL	Sec10Chile.AllLongHot.Plant	OriginalValue	10	NULL	
35300992050 1 1	122	2	135	CRHPLXHV	Sec10Chile.AllLongHot.RedHarvested	OriginalValue	0	NULL	
35301194300 1 1	130	2	9981	YFMELRID	Managmnt.ELMARrequestID	OriginalValue	L02993743	NULL	
35301194300 1 1	130	2	9960	YCMTCAPI	Managmnt.CAPICmntInd	OriginalValue	0	NULL	
35301194300 1 1	130	2	9960	YCMTCAPI	Managmnt.CAPICmntInd	Remark	NULL	CAPI: undefined :: OUT OF BUSINESS:	

# FieldProperty uses in edit

- By editing the field pane templates in the BLRD, we provide Original and Overlay value in hover text.

The screenshot shows a data field labeled 'TotalVal' with a value of 999. A tooltip is displayed over the field, showing 'Original Value: 95000'. To the right of the field, there is a red warning box with the text 'Don't Know'.

- For the record in use, we allow users to run reports to display Original and Overlay values for the entire record.

ID	ItemCode	MasterVarname	OriginalValue	BlaiseField
<input type="text" value="Search ID"/>	<input type="text" value="Search ItemCode"/>	<input type="text" value="Search MasterVarname"/>	<input type="text" value="Search OriginalValue"/>	<input type="text" value="Search BlaiseField"/>
4300128150 1 1	518	CLAND518	3	Sec10LandVal.Change
4300128150 1 1	900	CLANDTOT	126	Sec10LandVal.Operate
4300128150 1 1	901	CLANDOWN	26	Sec10LandVal.Owned
4300128150 1 1	513	CLANDPAS	20	Sec10LandVal.Pasture
4300128150 1 1	413	CLAND413	15000	Sec10LandVal.PastVal
4300128150 1 1	902	CLANDRFM	100	Sec10LandVal.RentFrom
4300128150 1 1			1	Sec10LandVal.Confirm_

# Survey Level Comment Review

S:/Application\_Files/Blaise5/RScript/rshiny/Testing - Shiny  
http://127.0.0.1:7436 Open in Browser Publish

## Blaise Report

Server: Beta

RFO: US

Survey: CITRUS PROD

SDate: 2020-07-01

Select Report: Comment Review

Run

Download

Show 25 entries Search:

KeyValue	Item_Code	Master_Varname	Comment_Text
4300062470 1 1	0431	CORVXXAC	test comment test comment
4300143850 1 1	0431	CORVXXAC	THis is a test comment on Valencia Oranges. JH
6301473060 1 1	7001	CCTOXAIN	This is a test comment.
48877307290 1 1	9960	YCMTCAPI	CAWI: testing

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